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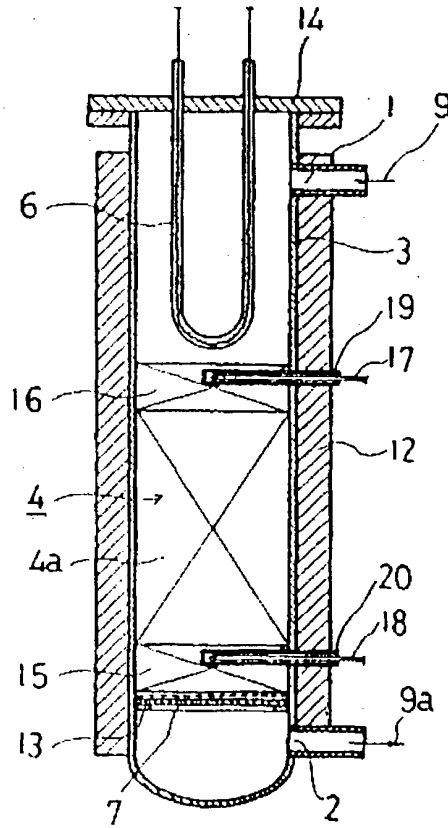
APPLICATION NUMBER : 59229940

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TITLE : GAS REFINING DEVICE



ABSTRACT : PURPOSE: To obtain high-purity gas at low cost by forming a getter layer in the lower inner part of a cylinder having an inlet of gas to be treated in the upper part and a refined gas outlet in the lower part and arranging a heater in the upper inner space of the cylinder.

CONSTITUTION: A gas to be treated is injected into a cylinder 3 from a treated gas inlet 1 located above and sequentially heated by a heater 6 in the cylinder. Then the gas passes to a getter layer 4 through an upper buffer 16 and the getter layer is heated to a temperature falling within an optimal active temperature range according to substance to be removed by the getter layer. The treated gas flows uniformly throughout the entire cross-section of the cylinder, resulting in the reduction of a temperature gradient to an insignificant level in a radial and a vertical axis direction. Thus the entire getter layer is maintained at an optimal temperature and a purified gas is discharged from an outlet 2.

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